5/04

DART AEROSPACE LTD	Work Order:	22066
Description: Lug and Bracket	Part Number:	D3016-13/-15/-17
		(D3017-7)
Dwg: D3016 Rev. A; D3017 Rev. A page 1	Qty:	Zo & Kits
		Page 1 of 2

Step		Procedure	Ву	Date	Qty
1	DC	Issue Traveler	AA		
		To be made in multiples of 8.	142	04.12.08	2
2	MV	Cut blanks: 1.53" x 1.50" (+/-0.010)			
		Material: AISI 4130N Sheet, 0.049" thick	1		
		(M4130N-S049) Identify for D3016-17 Batch: 16443		1 1 16	
	B 43 /	Identify for D3016-17 Batch:////	PL	03-0HE	120
3	MV	Cut blanks: 7.90" x 4.070" (+/-0.010)	•		
		Material: AISI 4130N Sheet, 0.049" thick (M4130N-S049)	4	h	
		1.	NI	#	
4	MV	Identify for D3016-13 Batch: Cut blanks: 2.580" x 2.580" (+0.010/-0.000)	 		
4	IVIV	Material: AIST 4130N Sheet, 0.049" thick		1.	
	·-	(M4130N-S049)		11 n	
		Identify for D3016-15 Batch:		1 H	
5	MV	Cut (12) 93017-7 blanks per 8 Kits	 		\sim
		Cut blanks: 4.290" x 3.180" (+/-0.010)			
		Material: AISI 4130N Sheet, 0.049" thick	\ \	U1/4	
		(M4130N-S049)	_ ′	[[/ 1	,
-		Identify for D3017-7 Batch:			
6	MV	Machine D3046-15 as per Folio FA162 and Dwg D3016			
		Use Stack of 8	I 1	1111	
		Identify as D3016-15		("	
7	QC2	Inspect parts as they come off the CNC machine			
8	MV	Deburr			
	005		ļ	-,	
9	QC5	Second check			
10	MV	Machine D3016-13 as per Folio FA162 and Dwg D3016	 		
10	1010	Use Stack of 8			
		Identify as D3016-13.		1	
11	QC2	Inspect parts as they come off the CNC machine			
		and the same on the same of th]		
12	MV	Deburr			
13	QC5	Second check			
· · · · · · · · · · · · · · · · · · ·			Λ		
14	MV	Machine D3017-7 as per Folio FA163 and Dwg D3017	17		´
		Use Stack of 6	/	,	٠
		Identify as D3017-7			
15	QC2	Inspect parts as they come off the CNC machine			ļ
40	10/	0.4			
16	MV	Deburr			-
17	QC5	Second check			
17	QU0	Second check			
18	GA	Grind D3016-17 radius as per Dwg D3016			∤
.0		Identify as D3016-17	11	05-03.01	20
19	GA	Deburr			
	57	Doban	4	08.03.01	20
			1		

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES										
DATE	STEP PROCEDURE CHANGE		STEP PROCEDURE CHANGE By		EP PROCEDURE CHANGE By Da		TEP PROCEDURE CHANGE By Date		PROCEDURE CHANGE By Date Qt		Qty	Approval Mfg / Design Mgr	Approval QC Inspector
/													
				,		Í							
·	-			.1		L							

NCR:								
		Description of NC		Corrective Action Section B		Verification	Annroyal	
DATE	STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Section C	Approval Design Mgr	Approval QC Inspector
				74X1M				
						į		

Part No:	PAR #:	Fault Category:	NCR:	Yes	No	DQA:	Date:	مسك
NOTE: Date & initial all entries				QA: N	/C CI	osed:	Date:	

DART AEROSPACE LTD	Work Order:	22066
Description: Lug and Bracket	Part Number:	D3016-13/-15/-17
		D3017-7
Dwg: D3016 Rev. A; D3017 Rev. A page 1	Qty:	Z Kits
		Page 2 of 2

Step	Location	Procedure	Ву	Date	Qty
20	QC5	Inspect work to Step 19	M	05/261	20
21	GB	Form D3017-7 as per Dwg D3017 and D3016-13 as per Dwg D3016		77	
22	QC5	Inspect work to Step 21		//	
23	GA	Identify and bag with light oil (Vactra oil No. 2) D8016-13 Otyn D3016-17 Qty: D301717 Qty:	M	05/03/01	20
24	AC	Parts to Stock and prorate cost of parts per Step 23 Cost / part / , & Z	545	05.63-0/	<i>Z</i> 0
25	DC	Close W/O / , 8 z Inspect Level 21	A)	05.03.02	20

Rev	Date	Change	Revised By	Approved
Α	01.09.11	New issue	EC	.1
В	03.05.09	Reformat	KJ/RF	#



Dart Aerospace Ltd

W/O:			WO	RK ORDER CHANGES	3				
DATE	STEP	PR	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
NCR:			WORK ORDE	R NON-CONFORMAN	CE (NCR)		1		
,				Corrective Action Section B					
DATE	STEP	Description of NC Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date		Verification Section C	Approval Design Mgr	Approval QC Inspector
1									
Part No):	PAR #:	_ Fault Category	r: NCR:	Yes No I	DQA:		Date:	
NOTE: D	ate & initial a	all entries			QA: N/C Clo	sed:		Date:	





DESIGN OF DRAWN BY			DART AEROSPACE HAWKESBURY, ONTARIO, CANAL	
CHECK	(ED ,	APPROVED	DRAWING NO.	REV. A
	4	 	D3016	SHEET 1 OF 3
DATE			TITLE	SCALE
01.0	5.18		SEAT FRAME ASSEMBLY	NTS
Α		01.05.18	NEW ISSUE	

QTY	PART NUMBER	DESCRIPTION	MATERIAL
Х	D3016-041	SEAT FRAME ASSEMBLY	N/A
1	D3016-1	TUBE	AISI 4130N TUBE, Ø0.75 DIA x 0.049 WALL (M4130N-T0750W049)
2	D3016-3	TUBE	AISI 4130N TUBE, Ø0.75 DIA x 0.049 WALL (M4130N-T0750W049)
1	D3016-5	TUBE	AISI 4130N TUBE, Ø0.50 DIA x 0.049 WALL (M4130N-T0500W049)
2	D3016-7	TUBE	AISI 4130N TUBE, Ø0.50 DIA x 0.049 WALL (M4130N-T0500W049)
1	D3016-9	SADDLE	AISI 4130N TUBE, Ø1.00 DIA x 0.120 WALL (M4130N-T1000W120)
1	D3016-11	SADDLE	AISI 4130N TUBE, Ø1.00 DIA x 0.120 WALL (M4130N-T1000W120)
1	D3016-13	BRACKET	AISI 4130N SHEET, 18 GAUGE (M4130N-S049)
1	D3016-15	GUSSET	AISI 4130N SHEET, 18 GAUGE (M4130N-S049)
1	D3016-17	GUSSET	AISI 4130N SHEET, 18 GAUGE (M4130N-S049)
. 2	D3020-1	FITTING	N/A

NOTES

- 1) WELD PER DART QSI 004
- 2) ON SHEET METAL PARTS, BREAK ALL UNMARKED CORNERS 0.020-0.040
- 3) FINISH: POWDER COAT GREY SANDTEX (REF. 4.3.5.6) PER DART QSI 005 4.3
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

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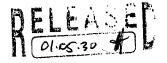
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NUTROLICE

WCRK ORDER

NO. 220.26



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DESIG	P	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CANAD	
CHECK	ED M	APPROVED	DRAWING NO.	REV. A
	4	#	D3017	SHEET 1 OF 2
DATE			TITLE	SCALE
01.0	5.18	-	BACK FRAME ASSEMBLY	1:1
Α		01.05.18	NEW ISSUE	

QTY	PART No.	DESCRIPTION	MATERIAL
Х	D3017-041	BACK FRAME ASSEMBLY	N/A
1	D3017-1	TUBE	AISI 4130N TUBE, Ø0.75 DIA x 0.049 WALL (M4130N-T0750W049)
2	D3017-3	TUBE	AISI 4130N TUBE, Ø0.75 DIA x 0.049 WALL (M4130N-T0750W049)
1	D3017-5	TUBE	AISI 4130N TUBE, Ø0.75 DIA x 0.049 WALL (M4130N-T0750W049)
3	D3017-7	LUG	AISI 4130N SHEET, 18 GAUGE (M4130N-S049)
2	D3017-11	END CAP	AISI 4130N SHEET, 18 GAUGE (M4130N-S049)

NOTES

- 1) WELD PER DART QSI 004
- 2) ON SHEET METAL PARTS, BREAK ALL UNMARKED CORNERS 0.020-0.040
- 3) FINISH: POWDER COAT GREY SANDTEX (REF. 4.3.5.6) PER DART QSI 005 4.3
- 4) ALL DIMENSIONS ARE IN INCHES.
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

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SUBJURICHED NOTICE

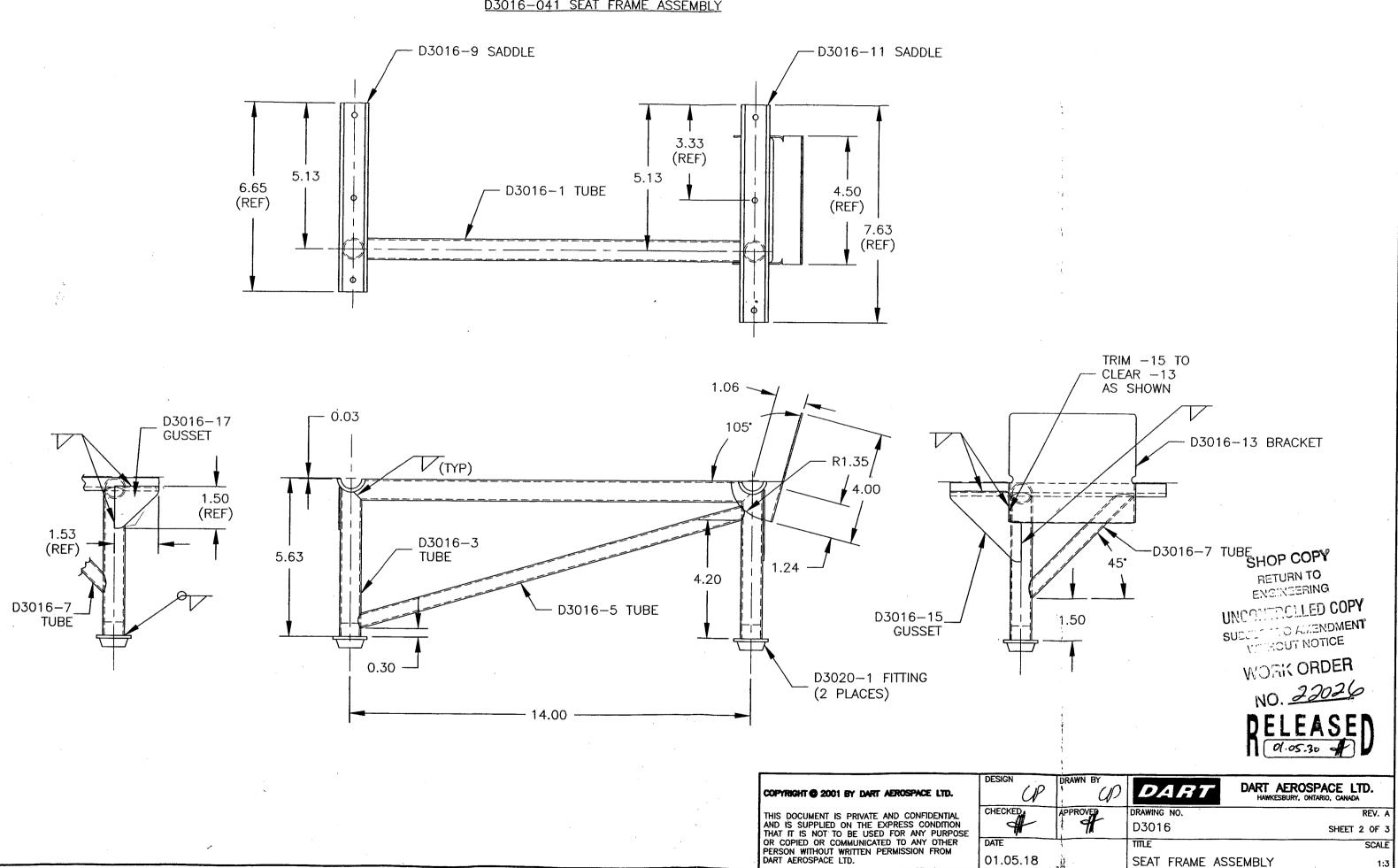
ABOUT CENTERLINE

WORK ORDER 872 R_{0.25} o. (TYP) 0.000 1.86 \$0,191 (2 PLS) 2.063 R0.375 2.500 BENDING DETAIL R0.44 R0.375 3.183 (TYP) 2.060 0.000 R0.015 Ø0.750 FLAT PATTERN D3017-11 END CAP PART IS SYMMETRIC

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D3016-041 SEAT FRAME ASSEMBLY



DATE

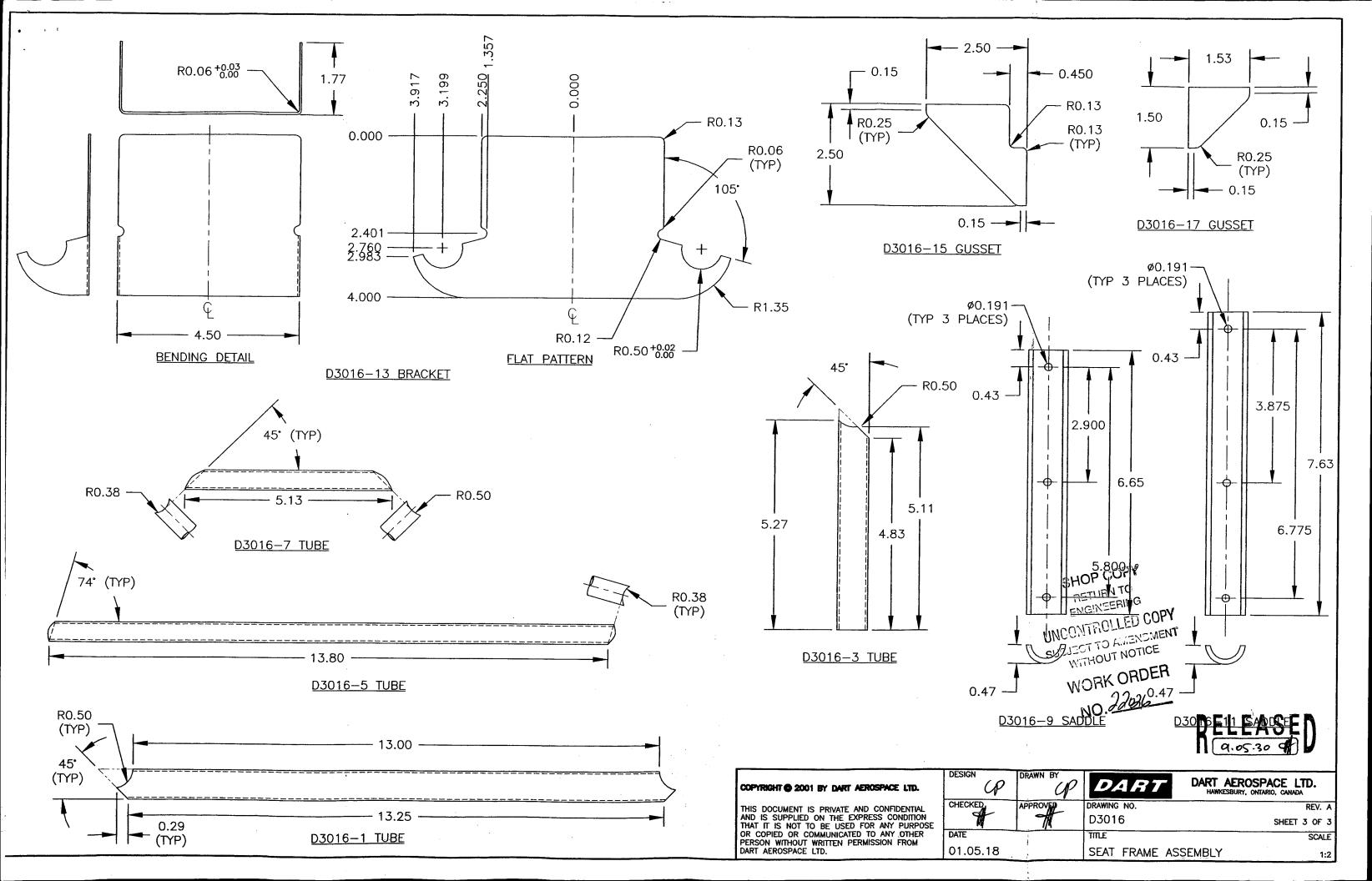
01.05.18

TITLE

SEAT FRAME ASSEMBLY

SCALE

1:3



Job Costing Report

			 -		
Dart Aerospace Ltd.		*			Dec 06, 2004
Hawkesbury		•			11:09 am

Work Order No	:	0022066		
Project Name	:	D3016-17	Department Code:	
Project For	:	WK504	Burden Flags : NNNNNNN	
7.7 1 - O 1 O		N/	WO Chatuaria - Onon	

House Part Number: D3016-17 Invoice Date:

Description : Gusset Invoice Number :

Manufactured: Yes Invoice Amount: 0.00

Amount Req'd: 2
Amount Done: 0 Order Entry No:

Start Date : 12-06-04 OE Value : 0.00

Est Finish Date : 01-22-05 Act Finish Date : Est Margin : 0.000%

Drawings Reqd : No Actual Margin : 0.000%

Ok for Approval :

Approval Rec'd : \$0 Posted to Finished Goods

* m ₁₆		Estimated	Actual	Var. %	Posted	То	Post
Material Cost	:===	0.00	0,00	0.00	0.00		0.00
Engineering Hours	:	0.00	0.00	0.00			
Engineering Cost	:	0.00	0.00	0.00	0.00		0.00
Production Hours	:	0.00	0.00	0.00			
Production Cost	:	0.00	0.00	0.00	0.00	ુવ	0.00
Packaging Hours	:	0.00	0.00	0.00			
Packaging Cost	:	0.00	0.00	0.00	0.00		0.00
OverHead Hours	:	0.00	0.00	0.00	0		
OverHead Cost	:	0.00	0.00	0.00	0.00	W 24	0.00
CNC Hours	:	0.00	0.00	0.00	V.		
CNC	:	0.00	0.00	0.00	0.00		0.00
Misc. Hours	:	0.00	0.00	0.00			
Misc.	:	0.00	0.00	0.00	0.00	*	0.00
		=======	=======	======			* 4
Burden	:	0.00	0.00	0.00			
		========	========	======	•		
Total Cost	:	0.00	0.00	0.00			
Margin	:	0.000	0.000		٠		
Selling Cost	:	0.00	0.00				

₩		Estimated	Actual
Labour Hrs/Amount Done	:	0.00	0.00
Profits/(Loss)	:	0.00	0.00